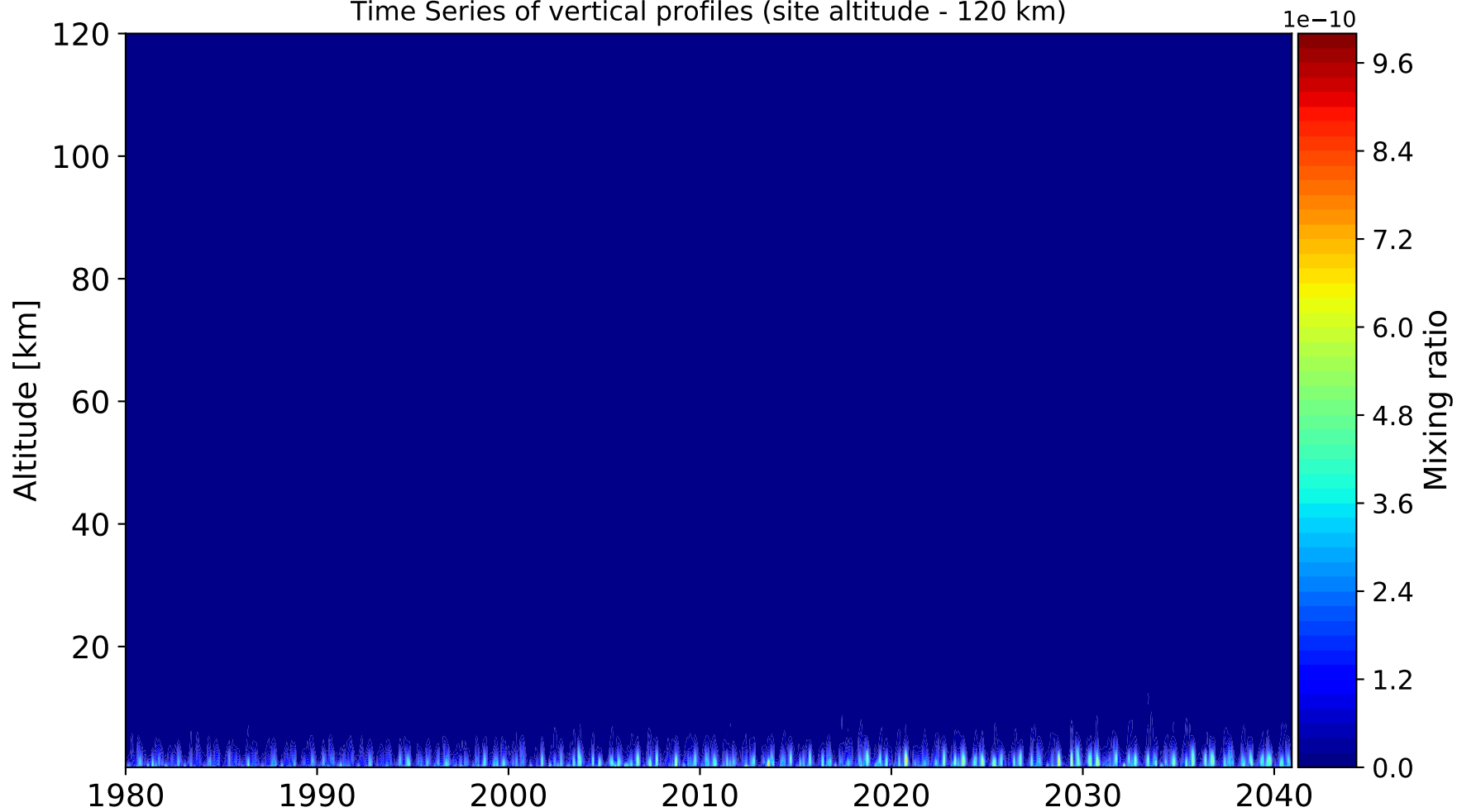
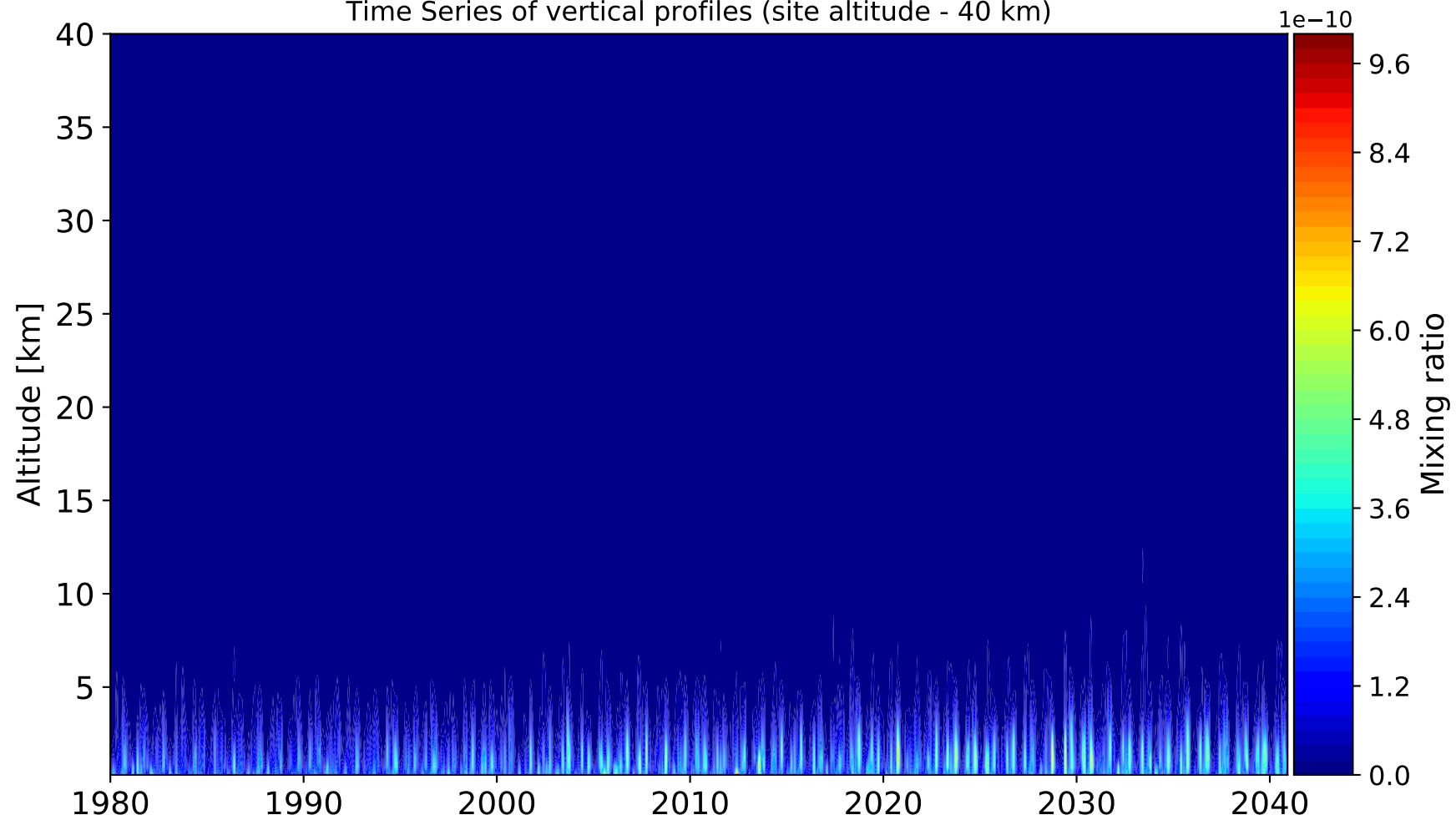


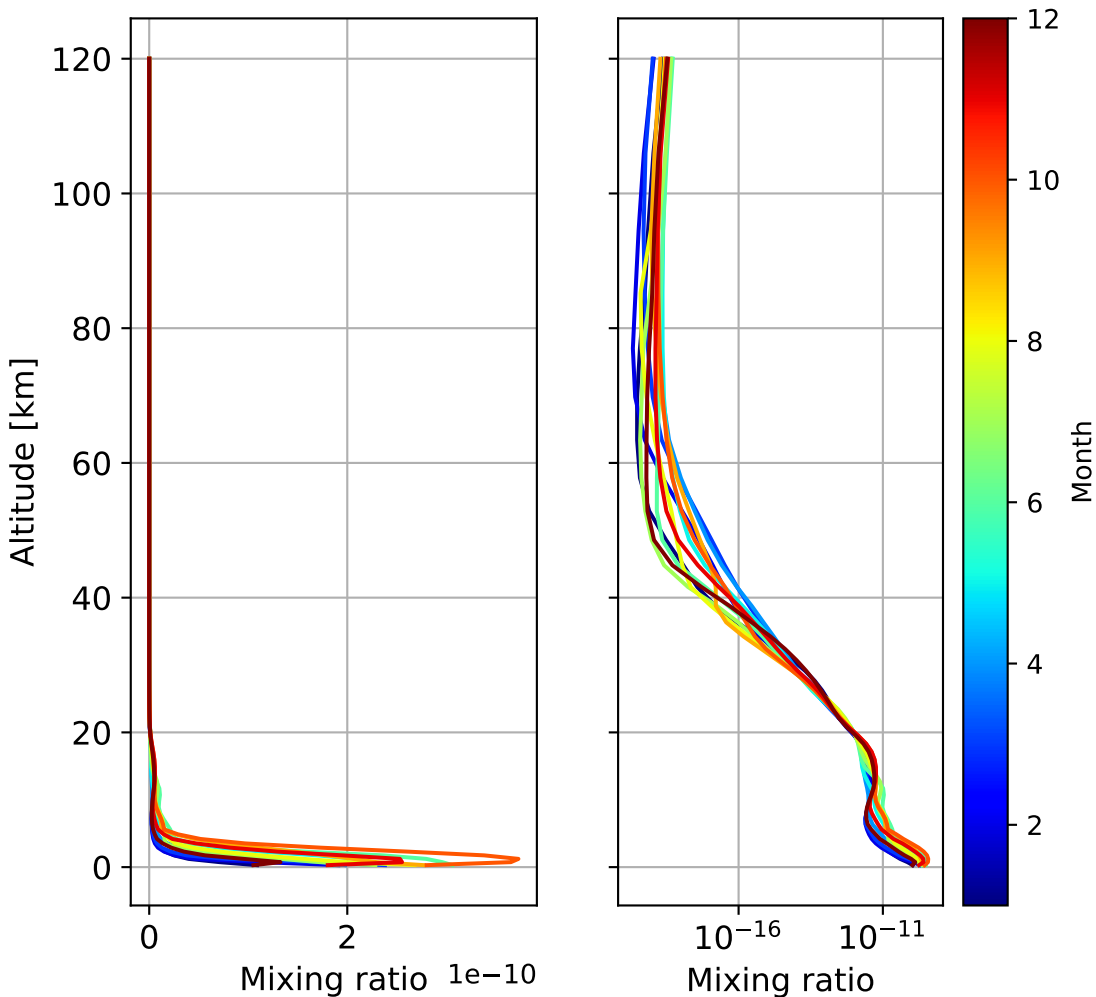
Time Series of vertical profiles (site altitude - 120 km)



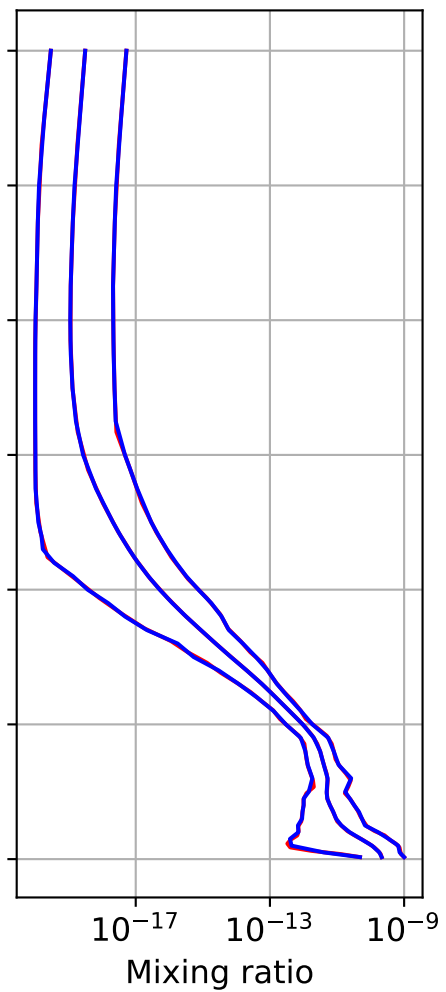
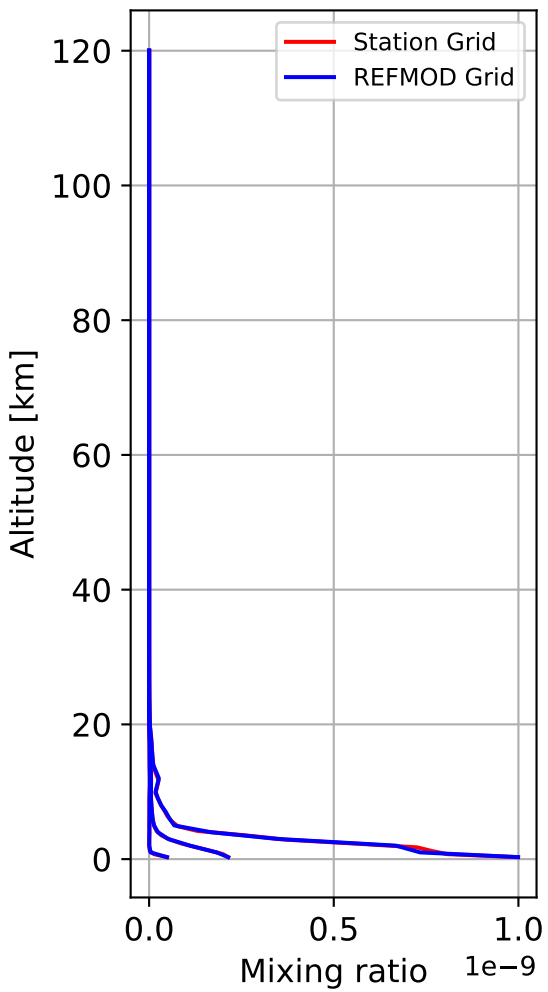
Time Series of vertical profiles (site altitude - 40 km)



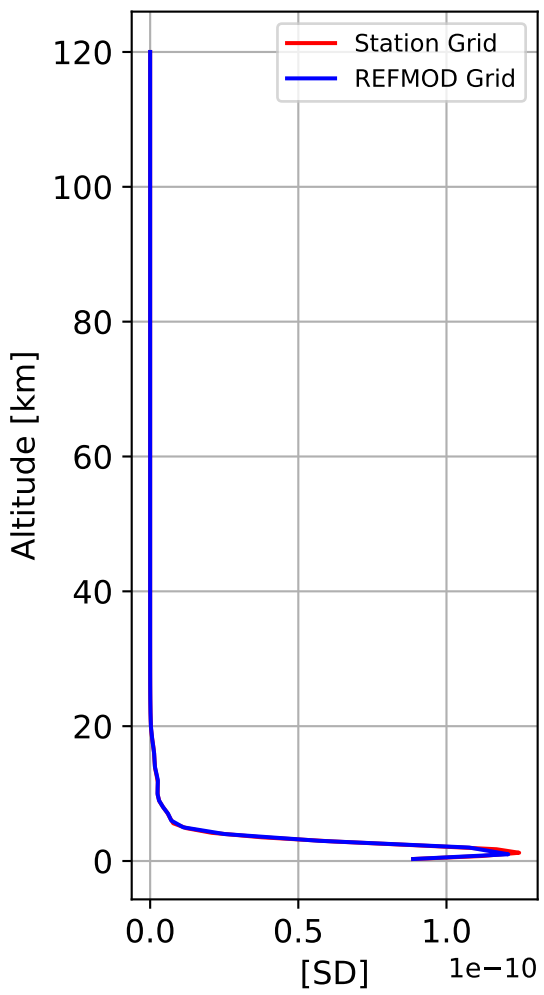
Monthly mean WACCM profile (interpolated to station grid)  
Timmins, 48.57N, 278.62E, 0.295km/sl



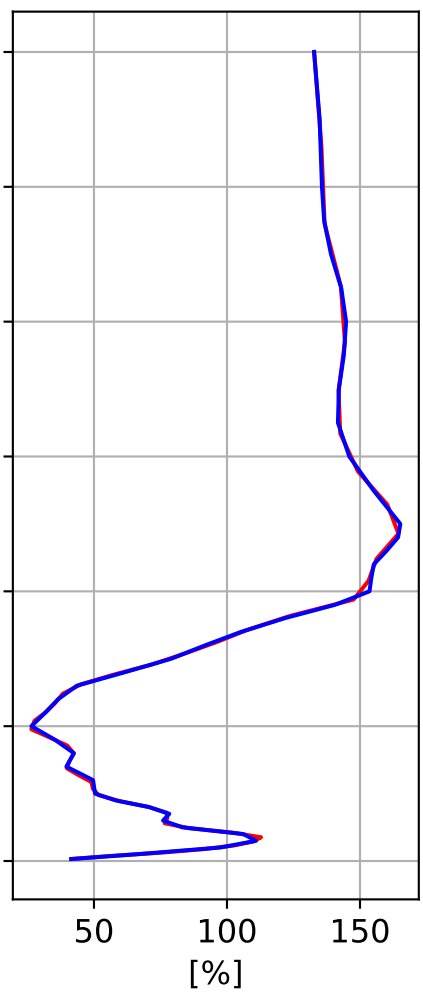
Min, Max, Mean of 732 profiles  
Timmins, 48.57N, 278.62E, 0.295kmasl



### Std. Deviation



### Percent Deviation



# Level covariance matrix

1e-20

Altitude [km]

120

100

80

60

40

20

20

Altitude [km]

1.4

1.2

1.0

0.8

0.6

0.4

0.2

0.0

Mixing ratio[ $\sim 2$ ]

